

AMENDMENTS TO THE CLAIMS

Claims 1-13 (Canceled)

Claim 14 (Currently Amended): A method to screen a plant extract for ~~compounds~~ polypeptides that bind selectively to a target, which method comprises:

- (a) fractionating a crude plant extract using chromatography to obtain fractions, wherein each fraction has multiple protein components;
- (b) coating each said fraction individually on a solid support to produce a solid support coated with each said individual fraction, each fraction being coated at a different location on the support;
- (c) contacting said coated solid support with a labeled target to obtain a complex of said labeled target and any ~~compound~~ polypeptides in [[a]] said fraction that binds said target;
- (d) washing said coated support after step (c) to remove any labeled target not bound to a ~~compound~~ polypeptide;
- (e) detecting any complex of labeled target and ~~compound~~ polypeptide that binds to said target at said location.

Claim 15 (Currently amended): The method of claim 14, which further comprises the step of recovering said ~~compound~~ polypeptide from the complex.

Claim 16 (Original): The method of claim 14, wherein the plant extract is from an herb.

Claim 17 (Original): The method of claim 14, wherein the target is a protein.

Claim 18 (Original): The method of claim 17, wherein the protein is a glycoprotein.

Claim 19 (Original): The method of claim 14, wherein the label is biotin.

Claim 20 (Original): The method of claim 14, wherein the solid support is a plastic plate.

Claims 21-24 (Canceled)

Claim 25 (Currently amended): A kit for screening fractions of a plant extract for biologically active ~~compounds~~ polypeptides which comprises:

- (a) a crude plant extract;
- (b) a gridded solid support for receiving said fractions, wherein each fraction has multiple protein components;
- (c) a labeled target for forming a complex with any fraction containing a biologically active polypeptide ~~compound~~;
- (d) a washing buffer for removing unbound labeled target; and
- (e) a reagent for detecting label.

Claim 26 (Original): The kit of claim 25 wherein the solid support is a plastic plate.

Claim 27 (Original): The kit of claim 25, wherein the label is biotin.

Claim 28 (Original): The kit of claim 25, wherein the target is a platelet membrane receptor protein.

Claim 29 (Original): The kit of claim 25, within the crude extract is from an herb.

Claim 30 (Original): The method of claim 16, wherein the herb is *Carthamus tinctorius*.

Claim 31 (Currently amended): The method of claim 30, wherein said ~~compound~~ polypeptide has a molecular weight of 268 gm/mol., is self-polymerizable, exhibits inhibition activity in platelet aggregation, and exhibits *in vivo* anti-thrombotic activity.

Claim 32 (New): A method to screen a plant extract for an anti-thrombotic polypeptide that bind selectively to platelet membrane receptor gpIIb/IIIa, which method comprises:

- (a) fractionating a crude plant extract using chromatography to obtain fractions, wherein each fraction has multiple protein components;
- (b) coating each said fraction individually on a solid support to produce a solid support coated with each said individual fraction, each fraction being coated at a different location on said support;

(c) contacting said coated solid support with a labeled platelet membrane receptor protein gpIIb/IIIa to obtain a complex of labeled target and any polypeptide in said fraction that binds said gpIIb/IIIa;

(d) washing said coated support after step (c) to remove any labeled gpIIb/IIIa not bound to said polypeptide;

(e) detecting said complex formed.

Claim 33 (New): The method of claim 32, which further comprises the step of recovering said polypeptide from said complex.

Claim 34 (New): The method of claim 32, wherein said plant extract is from an herb.

Claim 35 (New): The method of claim 34, wherein said herb is *Carthamus tinctorius*.

Claim 36 (New): The method of claim 32, wherein said label is biotin.

Claim 37 (New): The method of claim 32, wherein said solid support is a plastic plate.

Claim 38 (New): A kit for screening fractions of a plant extract for an anti-thrombotic polypeptide that bind selectively to platelet membrane receptor gpIIb/IIIa, comprising:

(a) a crude plant extract;

(b) a gridded solid support for receiving said fractions, wherein each fraction has multiple protein components;

(c) a labeled platelet membrane receptor gpIIb/IIIa for forming a complex with any said fraction containing a polypeptide that binds said gpIIb/IIIa; and

(e) a reagent for detecting said label.

Claim 39 (New): The method of claim 38, wherein said plant extract is from an herb.

Claim 40 (New): The method of claim 39, wherein said herb is *Carthamus tinctorius*.

Claim 41 (New): The method of claim 38, wherein said label is biotin.

Claim 42 (New): The method of claim 38, wherein said solid support is a plastic plate.